

TEREGULOV, I.G. (Kazan')

Creep in the boundary area of thin shells. Izv. AN SSSR.
Mekh. i mashinostr. no.6:169-173 N-D '63. (MIRA 17:1)

L 10433-67 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWP(t)/ETI— IJP(c) JB, m/Br
ACC NR: AT6032967 SOURCE CODE: UR/3228/64/000/002/0145/0158 38

AUTHOR: Teregulov, I. G.; Murtazin, R. Z.

ORG: none

TITLE: Quasistatic bending and stability of shells under creep (inheritance theory)

SOURCE: Kazan. Universitet. Issledovaniya po teorii plastin i obolochek, no. 2, 1964, 145-158

TOPIC TAGS: creep, shell structure stability, metal bending

ABSTRACT: The paper discusses some approximate solution methods for problems concerning the bending of plates and shells when the bending is comparable to the thickness. The solutions are based on a variational method and the method of a small parameter. During the development of creep deformation, the shell acquires a bent shape for which a certain stress is critical. With the assumption that the relative elongations are small in comparison to unity, the calculation is based on the linearized relationship between the stresses and deformation developed by Yu. N. Rabotnov in his theory of "hereditary creep". This relationship is given by

$$\epsilon_{mn}(t) = B_{mnkh} \sigma_{kh}(t) + \int_0^t K(t-\tau) B_{mnkh} \sigma_{kh}(\tau) d\tau. \quad (1.1)$$

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L 10433-67

ACC NR: AT6032967

where ϵ_{ik} are the contravariant components of the stress tensor; B_{mnik} - components of the elastic constants tensor; $K(t - \tau)$ is the kernel of the aftereffect; t - time; ϵ_{mn} - covariant components of the deformation tensor. Application of an approximate method is justified because of the considerable scatter of experimental data. Orig. art. has: 2 tables and 48 equations.

SUB CODE: 20 / SUBM DATE: --Jun63/ ORIG REF: 004

Card 2/2 *sup*

ACC NR: ARG027464

(N)

SOURCE CODE: UR/0044/66/000/005/B057/B057

AUTHOR: Teregulov, I. G.

TITLE: Approximate solution methods for problems of irregular creep in thin films

SOURCE: Ref. zh. Matematika, Abs. 5B283

REF SOURCE: Sb. Issled. po teorii plastin i obolochek. No. 3, Kazan', Kazansk.
un-t, 1965, 270-279

TOPIC TAGS: thin films, creep, approximate solution, approximation method

ABSTRACT: General equations for thin film creep with small deformations are examined on the basis of hardening theory. Initial relationships are formulated by introducing quadratic forms of stress and moments and, consequently, for elongation and bending; each relationship contains an arbitrary constant, chosen on energy considerations. Introduction of generalized and supplementary scattering functions permits approximate formulation of the basic dependence between force and kinematic characteristics under creep conditions. The corresponding variational principles are formulated. The approximate variational method for solving irregular creep problems is described. An example is given of bending of a sloping spherical segment, with one rigidly fastened end, under a hydrostatic pressure. [Translation of abstract] V. Shamin

SUB CODE: 09,20

UDC: 517.9:539.3

Card 1/1

ACC NR: AR6028087

SOURCE CODE: UR/0124/66/000/005/V048/V048

AUTHOR: Teregulov, I. G.

TITLE: Approximate methods of solving problems of unsteady creep of thin shells

SOURCE: Ref. zh. Mekhanika, Abs. 5B358

REF SOURCE: Sb. Issled. po teorii plastin i obolochek. No. 3. Kazan', Kazansk. un-t, 1965, 270-279

TOPIC TAGS: metal creep, approximation method, thin shell structure

ABSTRACT: The general equations of creep of thin shells under small strains are examined on the basis of the theory of hardening (with a power dependence). Quadratic forms of forces and moments and of rates of elongation and curvature, respectively, containing one arbitrary constant for each are introduced for constructing the initial relations (by analogy with the proposal of V. I. Rozenblyum (see Prikl. matem. i mekhan., 1963, 27, No. 1, 154-159--RZhMekh, 1964, 8B419)). These constants are suitably selected on the basis of energy considerations (unlike the aforementioned work of V. I. Rozenblyum where the Drucker-Kaladin theorems of inclusion are used). The introduction of generalized functions of dissipation and additional dissipation permit obtaining approximate formulations of the basic relations between power and kinematic characteristics under creep conditions. The formulations of corresponding variational principles are given. An approximate variational method of solving problems of unsteady creep of shells is presented. Bending of a sloping spherical segment with a

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ACC NR: AR6028087

rigidly imbedded edge under the effect of hydrostatic pressure is given as an illustration. [Translation of abstract] L. M. Kachanov

SUB CODE: 2012

Card 2/2

ACC NR: AR6030403

(N)

SOURCE CODE: UR/0124/66/000/000/V002/V002

AUTHOR: Teregulov, I. G.

TITLE: Variation method in the theory of nonstationary creep

SOURCE: Ref. zh. Mekhanika, Abs. 6V306

REF SOURCE: Sb. Issled. po teorii plastin i obolochek. No. 3. Kazan', Kazansk. un-t, 1965, 280-293

TOPIC TAGS: shell theory, shell stability, thin shell, thin plate

TRANSLATION: At the beginning of the article, a variational principle is formulated for nonstationary creep of a body in a geometrically nonlinear form. Elongations and shifts are assumed to be small; equations of the theory of flow under a power-series law are used. In the second part of the article, this variational principle is applied to the theory of thin plates and shells with a few supplementary simplifications. The problem of the stability of an infinitely long sloping cylindrical panel under the action of lateral loading is studied. The solution is constructed according to the method of Bubnov-Galyorkin for one undetermined time function. L. M. Kachanov.

SUB CODE: 20,12 /3

Card 1/1

1. TEREGULOV, I. Kh.
2. USSR (600)
4. Fertilizers and Manures
7. Using peat for fertilizer on the "Krasnyi Otiabr'." Dost. sel'khoz. no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

TELEVULOV, I. Kh.

Fertilizers and Manures

Mechanized extraction and carting of peat for fertilizer. Sov. agron. 10, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, SEPTEMBER 1952 ~~1952~~ Uncl.

TEREGULOV, I.

Peat

Using peat composts on the "Novaia Zhizn" Collective Farm. Dost. sel'khoz. No. 3, 1953.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

1. TEREKHLOV, I. Kh.
2. USSR 600
4. Peat
7. Using peat composts, Sov. agron, 11, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. TEREKULOV, I., Eng.
2. USSR (600)
4. Peat Industry
7. Organization in digging peat for fertilizer. MTS 13, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SECRET, 1947, 1977, 1980, 1981

1/4
100.1
23

Dobycha i primeneniye torfa na ulozheniye (Extraction of peat and its use as fertilizer. Moscow, Sel'mezgiz, 1955.

11' 1. 11' 100., 11' 100., 11' 100.

At head of title-page: parafrovyye Opys v Sel'skom Khozyaystve.

GALENCHIK, Ivan Zakharovich, kand.tekhn.nauk; ZHUK, Yefim Afanas'yevich,
kand.tekhn.nauk; OSTROVSKIY, Yakov Naumovich, agronom; ~~TEREGULOV~~,
Ivan Kharitonovich, inzh.; KAZACHENOK, V., red.; KALECHITS, G.,
tekhn.re.

[Winning peat and its uses in agriculture; a reference manual]
Dobycha i ispol'zovanie torfa v sel'skom khoziaistve; spravochnoe
posobie. Minsk, Gos.izd-vo BSSR. Red.sel'khoz.lit-ry, 1959.
231 p. (MIRA 13:4)

(Peat)

(Fertilizers and manures)

TEREGULOV, I.Kh., inzh.

Present status and prospects for the utilization of peat as a
fertilizer. Torf. prom. 36 no.5:19-20 '59.

(MIRA 13:1)

1. Ministerstvo sel'skogo khozyaystva SSSR.
(Peat) (Fertilizers and manures)

24.4100

66409

AUTHORS: Mushtari, Kh. M., Teregulov, I. G. SOV/20-128-6-13/63

TITLE: On the Theory of Shells of Moderate Thickness

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1144-1147 (USSR)

ABSTRACT: The authors based their investigations on the principle of virtual displacements to derive the equations for the equilibrium of shells. These equations make it then possible to introduce simplifications of a predetermined accuracy. Moreover, the problem of boundary conditions in the theory of thick plates and shells is solved here. The first equation written down refers to the virtual displacements of a shell (which is assumed to be a three-dimensional body), and the equilibrium equations referred to the nondeformed state are derived next. The static boundary conditions are then specified. Hooke's Law is written down in a generalized form. The authors then investigate the linear problem more thoroughly; the error permissible is of the order of deformation together with an error of the order of magnitude h^2/R^2 . Here, R denotes the smaller radius of curvature of the surface, h being a constant. The computation course

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On the Theory of Shells of Moderate Thickness

SOV/20-128-6-13/63

is followed up step by step. The equations derived here were applied to the solution of problems concerning the flexure of a circular plate with a radius a , and a rigid central disk with radius b under the action of a unilateral uniform pressure q in the region $b \leq r \leq a$ and the force Q applied to the disk. Some results are summarized in a table. The investigation under review was completed by Teregulov under the supervision of Kh. M. Mushtari. There are 1 table and 6 references, 5 of which are Soviet.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskii institut im. S. M. Kirova
(Kazan' Institute of Chemical Technology imeni S. M. Kirov)

PRESENTED: June 19, 1959, by Yu. N. Rabotnov, Academician

SUBMITTED: June 10, 1959

Card 2/2

VIKHLIYAYEV, I.I., prof.; OLENIN, A.S., kand.tekhn.nauk; RUNOV, D.I., inzh.;
TEREGULOV, I.Kh., inzh.; PACHIKHINA, O.Ye., kand.sel'skokhoz.nauk;
SHISHKOV, K.N., kand.sel'skokhoz.nauk; MINENKOVA, V.R., red.;
BALLOD, A.I., tekhn.red.

[Manual on peat] Spravochnik po torfu. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1960. 318 p. (MIRA 14:2)

(Feat)

TEREGULOV, I.Kh.

Possibilities for increasing the production of local fertilizers.
Zemledelie 24 no.11:55-60 N '62. (MIRA 16:1)

1. Glavnyy spetsialist Upravleniya torfyanogo fonda Glavnogo
upravleniya geologii i okhrany nedr pri Sovete Ministrov RSFSR.
(Fertilizers and manures) (Peat) (Phosphorites)

TEREGULOV, I.Kh.; OZOL, B.; TAMASHAS, R.; BANDIN, M.

Brief news. Torf. prom. 39 no.7:37-40 '62.

(MIRA 16:8)

(Peat industry)

TEREKHOV, Kh. G.

"Effect of the Perennial Grass Cover on the Fertility of the Leached Out Chernozem Encountered in the Forest Steppes of the Western (Bashkir) Slopes of the Ural Regions." Cand Agr Sci, Kirgiz Agricultural Inst, Frunze, 1953. (RZhBiol, No 1, Sep 54)

30: Sum 432, 29 Mar 55

TEREGULOV, N.G.

Device for measuring internal grooves. Mashinstroitel' no.8:24
Ag '60. (MIRA 13:9)
(Calipers)

~~SECRET~~
SAMTSOV, V.A.; TEREGULOV, R.G.

~~SECRET~~
Equipment for demonstration of recording of blood pressure, respiration
and function of isolated organs. Arkh. pat., Moskva 13 no.6:93-94 Nov-
Dec 51. (CIML 21:4)

1. Of the Department of Pathological Physiology (Head--Prof. V.A. Samtsov),
Bashkir Medical Institute (Director--Docent A.A. Ivanov), Ufa.

TEREGULOV, R.G.

Analysis of changes in the tonus of the vagus innervation center of the heart in hypoxic and anemic hypoxia in adult dogs. Biul. eksp. biol. i med. 59 no.4:22-25 Ap '65.

(MIRA 18:5)

1. Laboratoriya vozrastnoy fiziologii i patologii (zav. - prof. I.A. Arshavskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva.

KOROL'KOVA, O.A., assistant; TEREGULOVA, G.Sh.

Treatment of climacteric disorders with general restorative agents. Kaz. med. zhur. no.1:43-45 Ja-F'63.

(MIRA 16:8)

1. 1-ya kafedra akusherstva i ginekologii (zav. - prof. P.V. Manonkov) Kazanskogo meditsinskogo instituta i 2-ya zhenskaya konsul'tatsiya (zav. - T.G.Fayzullina) Kazanskogo meditsinskogo instituta.

(CLIMACTERIC)

SULTANOVA, S.A.; TEREGULOVA, S.A.

Effect of streptocids, sulfidine, and sulfazole on quantitative and qualitative changes of glutathione in blood and organs. Tr. Vsesoiuz. obsh. fiziol. no.1:109 1952. (GLML 24:1)

1. Delivered 23 November 1949, Baku.

RASANOV, A.S.; TEREGULOVA, S.A.

Role of proteins in regulation of carotene metabolism. Tr. Vsesoiuz.
obsh. fiziol. no. 1:111 1952. (GML 24:1)

1. Delivered 23 January 1950, Baku.

L 16002-66

ACC NR: AT6034088

SOURCE CODE: HU/2502/65/044/003/0287/0292

AUTHOR: Pulay, Peter--Pulai, P.; Torok, Ferenc--Terek, F.

32
B+1

ORG: Research Group of Inorganic Chemistry, Hungarian Academy of Sciences (Magyar Tudományos Akadémia, Szervetlen Kémiai Kutatócsoport); Department of General and Inorganic Chemistry, Eötvös Loránd University, Budapest (Eötvös Loránd Tudományegyetem, Általános és Szervetlen Kémiai Tanszék)

TITLE: Expression of F matrices by parameters, I.

SOURCE: Acta chimica academiae scientiarum Hungaricae, v. 44, no. 3, 1965, 287-292

TOPIC TAGS: eigenvalue, mathematic matrix

ABSTRACT: Real, positive, definite ¹⁶F matrices, the products of which have (experimentally determined) eigenvalues according to the requirements of G, Gf, n, were expressed as functions having $n(n-1)/2$ parameters. Some iterative methods are given which enable the building up of F matrices which satisfy certain required conditions. Orig. art. has: 7 formulas. [Based on authors' Eng. abst.] [JPRS: 33,540]

SUB CODE: 12 / SUBM DATE: 27Oct64 / ORIG REF: 001 / OTH REF: 007

Card 1/1

0920 2143

Terek, S.

USSR/Chemical Technology - Chemical Products and Their I-9
Application. Wood Chemistry Products. Hydrolysis Industry

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2673

Author : Terek, S., Sharkov, V.I.

Inst :

Title : Investigation of the Composition of Pentose Hydrolysates
of Cottonseed Hulls and Sunflower Seed Husks.

Orig Pub : Gidroliznaya i lesokhim. prom-st', 1957, No 5, 13-14

Abstract : It is shown that the hemicelluloses of sunflower husks (SH) are hydrolyzed, under identical conditions, considerably slower than the hemicelluloses of cottonseed hulls (CH). Chemical composition of monosaccharides of pentose hydrolysates of SH and CH, differ substantially. Particularly distinct is the composition of hydrolysates of the first stages of hydrolysis. In mixed hydrolysates of all four stages of hydrolysis this difference is attenuated, but the pentose hydrolysates of SH contain more uronic

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USSR/Chemical Technology - Chemical Products and Their I-9
Application. Wood Chemistry Products. Hydrolysis Industry

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2673

acids, arabinose and galactose, than the pentose hydrolysates of CH. In the hydrolysates of CH and SH only traces of mannose could be detected; their glucose content does not exceed 2.4-3.9%.

Card 2/2

. TEREKH, V.M. ; GRISHKO-BOGMENKO, B.K. [Hryshko-Bohmenko, B.K.]

Promising types of walnut in the Botanical Garden of the Ukrainian
Academy of Sciences. Trudy Bot. sada AN URSR 7:132-136 '60.
(MIRA 14:4)

(Ukraine—Walnut)

TEREKHA, G.V.

First results. Nauka i pered.op.v sel'khoz. 7 no.9:20-21 8 '57.
(MIRA 10:10)

1. Sekretar' Chernevetaskogo raykoma Kommunisticheskoy Partii
Ukrainy Vinnitskoy oblasti.
(Stock and stockbreeding)

GOLLAND, E.B.; TEREKHIN, A. I.

Improving the technology of hydraulic coal mining at the
"Krasnogorskaya" hydraulic mine and mastering rated indices.
Ugol' 39 no.9:16-22 3 '64.

(MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktor-
skiy institut dobychi uglya gidravlicheskim sposobom (for Golland).
2. Gidroshakhta "Krasnogorskaya" (for Terekhin).

TEREKHIN, A.P. (Saratov)

Approximation of functions of bounded p-variation. Izv. vys. ucheb.
zav.; mat. no.2:171-187 '65. (MIRA 18:5)

L 27248-66

ACC NR: AP6009861

SOURCE CODE: UR/0413/66/000/004/0053/0053

AUTHORS: Yudin, Ye. Ya.; Tsodikov, V. Ya.; Khusainova, O. M.; Yakobaon, I. M.;
Torekhin, A. S.; Butkin, B. I.; Chuchayev, V. G. 17
E

ORG: none

TITLE: Composite noise damper. Class 27, No. 178934

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 53

TOPIC TAGS: acoustic noise, sound absorption

ABSTRACT: This Author Certificate presents a composite noise damper for gas-dynamical equipment, engine exhaust channels, and ventilator shafts. The damper contains resonators placed along the side walls of the channel and sheets of sound absorbing material placed parallel to the resonators (see Fig. 1). To increase the damping efficiency and to decrease the consumption of the sound absorbing material, the sheets have open holes along their entire length for absorption of sound waves at both high and low frequencies. 2

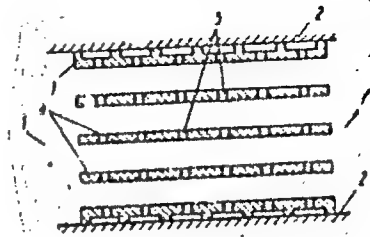
Card 1/2

UDC: 62-758.34

L 27248-66

ACC NR: AP6009861

Fig. 1. 1 - exhaust channel; 2 - channel walls;
3 - resonators; 4 - sheets; 5 - open
holes in sheets.



Orig. art. has: 1 diagram.

SUB CODE: 20, 13/ SUBM DATE: 01Feb65

Card 2/2 CC

I. 04152-67 P.T.M./E.A.T.M. I.P.R.A. W.W.E.H.

ACC NR: AP6011263

SOURCE CODE: UR/0413/66/000/004/000/0000

AUTHORS: Munin, A. G.; Naumenko, Z. N.; Torekhin, A. S.; Filipova, R. S.; Chizhin, K. G.

ORG: none

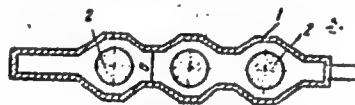
TITLE: Apparatus for damping noise in aerodynamic or gas-dynamic machinery.
Class 47, No. 180020

SOURCE: Izobrotoniya, promyshlennyye obraztzy, tovarnyye znaki, no. 6, 1966, 103

TOPIC TAGS: aerodynamic noise, acoustic noise, aerodynamics

ABSTRACT: This Author Certificate presents an apparatus for damping noise in aerodynamic or gas-dynamic machinery. The apparatus contains a reinforced concrete case with sound-absorbing columns, an inflow duct, and an exhaust chamber. To increase the acoustical effectiveness of noise damping in a broad range of frequencies, the reinforced concrete case is corrugated and has a variable cross section (see Fig. 1). The sound-absorbing columns are placed in each corrugation.

Fig. 1. 1 - reinforced concrete case;
2 - sound-absorbing columns



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 22Jul64

Card 1/1 vmb

UDC: 621-758.34:533.071.5

ACC NR: AP6033482

SOURCE CODE: UR/0413/66/000/018/0085/0085

INVENTOR: Yudin, Ye. Ya.; Terekhin, A. S.; Mogila, V. R.

ORG: none

TITLE: Axial fan. Class 27, No. 186070

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 85

TOPIC TAGS: axial fan, axial fan design, engine cooling, fan, engine cooling system

ABSTRACT: The proposed axial fan has a center fairing. In order to lower the noise level and to decrease the size of the fan, its fairing is made in the form of a silencing chamber (see Fig. 1). Orig. art. has: 1 figure. [WA No. 76]

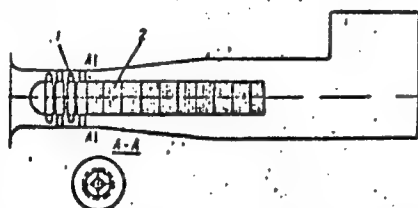


Fig. 1. Axial fan

1 - Fan; 2 - fairing.

SUB CODE: 21/ SUBM DATE: 25Dec64

Card 1/1

UDC: 622.445-758.34

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320008-0

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320008-0"

TEREKHIN, A Ye

AID P - 2996

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 11/28
Author : Terekhin, A. Ye., Eng.
Title : Improvement of the structure of the gate valve of the feeding high pressure piston
Periodical : Energetik, 6, 18-19, Je 1955
Abstract : The author describes the improvement made in the regulating pistons destined for high pressure boilers. He points to the deficiencies and to the improvements made. Three drawings.
Institution : None
Submitted : No date

IL'IN, A., insh.; TEREKHIN, B., insh.

Ground deformation by seepage through sluice foundations
and ways to avoid it. Rech.transp. 19 no.7:34-36
Jl '60. (MIRA 13:8)

(Sluices—Foundations) (Earth movements)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320008-0

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755320008-0"

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CIA-RDP86-00513R001755320008-0"

L 15728-66 FBD/EWT(1)/REC(k)-2/1/

/ENP(k)/ENP(b)/ENA(h)/EWT(m) SOTB/LJP(c)

ACC NR: AP6007095

SOURCE CODE: UR/0057/66/036/002/0394/0397

AUTHOR: Terekhin, D. K.; Fridrikhov, S. A.

ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnicheskoy Institut)

TITLE: The effect of a longitudinal magnetic field on the operation of an He-Ne laser at $\lambda = 0.6328 \mu$

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 2, 1966, 394-397

TOPIC TAGS: laser, gas laser, helium, neon, ~~laser~~ ^{longitudinal} magnetic field, ~~discharge~~ ^{tube, photomultiplier}

ABSTRACT: The effect of a longitudinal magnetic field on the operation of an He-Ne laser at $\lambda = 0.6328 \mu$ was investigated experimentally. A discharge tube 85 cm long and 4.4 mm in internal diameter, terminated with glass windows mounted at the Brewster angle, was filled to a pressure of 0.85 mm Hg with a neon-helium mixture at a ratio of 1:5.6. The discharge was excited at fixed current values. The magnetic field, which was parallel to the laser axis, could be varied from 0 to 2000 oe. A semi-confocal resonator was used with dielectric-coated mirrors ($R \approx 99.2\%$) placed at 120 cm. The laser power was measured in relative units by means of an FEU-22 photomultiplier. Curves of the laser power P_l as a

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ACC NR: AP6007095

function of field intensity at various values of discharge current were plotted and analyzed. Three distinct regions could be observed: 1) a region in which a rapid initial increase in generation power occurred when the field intensity increased from 0 to 10—15 oe; 2) a region in which there was a subsequent, smoother increase in the signal, which may be preceded by a short sloping interval; and 3) (after a distinct power maximum at $H \approx 150$ oe) a region in which a corresponding gradual decrease in laser output power occurred until the disruption of generation. The relative power increase in the first region was approximately equal for all values of discharge current and amounted to 150—200%. The rise in power in the second region was attributed to an increase in population inversion due to suppression by the magnetic field of generation at the $3s_2-3p_1$ transition ($\lambda = 3.39 \mu$). The smooth decrease in power in the third region was attributed to the separation of Doppler-broadened σ^+ -components of radiation (both at 1.15μ and 3.39μ) and to a decrease in the overlap region with an increase in H . The form of the function $P_1 = P(H)$ changed when the parameters of the active medium varied sharply from the optimal. The longitudinal magnetic field $H < 15$ oe re-established laser action at $\lambda = 0.63 \mu$ when generation was disrupted because of an increase in the content of dopants in the discharge. Orig. art. has: 2 figures. [YK]

SUB CODE: 20/ SUBM DATE: 03Jul65/ ORIG REF: 001/ OTH REF: 007/ ATD PRESS: 4201
Card 2/2 7195

MIKHIN, G.A.; VEKSLER, M.A.; BOYARINOV, A.I. Primali uchastiye: TANONKIN, I.V.;
TEREKHIN, E.M.

Laboratory high-frequency automatic titrator. Zav.lab. 29 no.8.
1008-1009 '63. (MIRA 16:9)
(Conductometric analysis)

TEREKHIN, E.S.; IVANOVA, G.I.

Systematics of Caucasian broomrapes. Bot. zhur. 50 no.8:1105-
1112 Ag '65. (MIRA 18:10)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

GRIGOR'YEVA, T.G.; TEREKHIN, E.S.

Distribution of grain bugs of the genus *Aelia* (Hemiptera, Pentatomidae) in the trans-Volga region and northern Kazakhstan. Ent. oboz. 40 no.1:19-23 '61. (MIRA 14:2)

1. Vsesoyuznyy institut zashchity rasteniy Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina, Leningrad:
(Staraya-Poltavka District--Stinkbugs)
(Karabalykskiy District--Stinkbugs)
(Wheat--Diseases and pests)

TEREKHIN, E.S.

Development of the endosperm and growth characteristics of the
zygote in the European species of wintergreen. Bot.zhur. 47
no.2:254-258 F '62. (MIRA 15:3)

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structures in Pyroleae-Monotropeae. Bot.zhur. 47 no.4:571-577
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TEREKHIN, E.S.

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47 no.12:1811-1816 D '62. (MIRA 16:6)

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(Wintergreen) (Botany--Embryology) (Indian pipe (Botany))

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Vestnik Akad Nauk No. 4, 1963, pp. 119-145

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Leningrad.

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(Botany--Embryology)

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48 no.8:1108-1120 Ag '63. (MIRA 16:10)

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TEREKHIN, E.S.

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TEREKHIN, F., prepodavatel'

Laboratory work on metal cutting. Prof.-tekh. obr. 19
no.12:13-15 D '62. (MIRA 16:2)

1. Remeslennoye uchilishche No.17, Novosibirsk.
(Metal cutting—Study and teaching)

KUZNETSOV, Mikhail Ivanovich; IEREMIN, F.S., red.; LAGOVSKIY,
G.N., red.

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dlia rabotaiushchikh na gidromekhanicheskikh snariadakh
(plavuchikh i na avtokhodu). Moskva, Transport, 1965.
45 p. (MIRA 18:7)

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PA 20/49T13

USSR/Electricity
Turbogenerators
Power Plants, Electric

Sep 48

"Case of Damage of the Rotor Insulating Rings in a
Type T2 Turbogenerator," F. V. Terekhin, Engr, 1 p

"Elek Stants" No 9

Describes three cases of subject defect and
suggests measures to avoid it.

~~SECRET~~ 20/49T13

"APPROVED FOR RELEASE: 07/16/2001

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1. Upravlyayushchiy Stavropol'skim stroitel'no-mono-
tashnym trestom "Sel'elektrostroy" (for Terekhin). 2. Glavnyy
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"Sel'elektrostroy" (for Nydel'man).
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Tie tamper "Blankenburg." Put' i put. khos. 7 no. 5:47 '63.
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DMCKHOVSKAYA, L.F., dots., retsenzent; BORISOGLEBSKIY, P.V.,
dots., retsenzent; LIFF, N.A., inzh., retsenzent; TEREKHIN,
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Vysshaya shkola, 1969. 225 p. (NID 18:10)

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(Electric current rectifiers)

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TEREKHIN, M.N., kandidat pedagogicheskikh nauk.

importance of practical work for the study of Michurin biological theories. Est. v shkole no.3:60-65 My-Je '54. (MIRA 7:7)

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manual] Finansirovanie kapital'nykh vlozhenii kommunal'nykh bankami;
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Conference of medical personnel. Zdrav. Bel. 7 no. 5:69 My '61.
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TEREKHIN, S.Ya., inzh.; YAKOVLEV, K.N., arkhitektor

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(Moscow--Bridges)

TEREKHIN, S.Ya., inzh.

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(Insurance, Disability)

TEREKHIN, V.

Mechanization of labor-consuming operations at the Kiev Airbus
Station. Avt. transp. 43 no.8:13-11 Ag '65. (MIRA 18:9)

1. Zamestitel' nachal'nika upravleniya passazhirskikh pererozok
Ministerstva avtomobil'nogo transporta i shosseynykh dorog UkrSSR.

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(TIBIA, diseases)

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Zap.-Sib. fil. ASiA no.7:16-22 '62. (MIRA 18:2)

TEREKHIN, V.I.

New spark plug. Avt.prom. 29 no.10:44 0 '63. (MIRA 16:10)

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TOKAR', Moisey Grigor'yevich; SONIN, Boris Aleksandrovich;
SOFRONOV, Fedor Petrovich; GEYMAN, L.M., red.izd-va;
LAVRENT'YEVA, L.G., tekhn. red.

[New developments in boring and blasting operations in
asbestos open pit mines] Novoe v burovzryvnykh rabotakh na
asbestovykh kar'erakh. Moskva, Gosgortekhzdat, 1963. 68 p.
(MIRA 16:10)

(Asbestos mines and mining) (Blasting)

PECHERKIN, A.G., gornyy inzh.; TEREKHIN, V.N.

Mechanization of charging and stemming blastholes in asbestos mines.
Gor. zhur. no.6:44-47 Je '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut
gornogo i obogatitel'nogo mashinostroyeniya, Sverdlovsk (for Pecherkin).
2. Glavnyy inzh. tresta Soyuzasbest (for Terekhin).

S/598/61/000/006/002/034
D245/D303

AUTHORS: Lukashenko, E.Ye., Zinov'yeva, N.K., Terekhin, V.P.
and Feofanov, L.P.

TITLE: The mechanism of magnesiothermal reduction and formation of titanium sponge in an industrial reactor

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego plavy. no. 6, 1961. Metallotermiya i elektrokimiya titan, 14 - 20

TEXT: The authors carried out 6 experiments on the process using a reaction vessel enclosed in an industrial reactor and with $TiCl_4$ feed of 20, 30, 60, 80 and 95 % of that normally applied. The results show that the mechanism of the process can be regarded as in three stages. In the first ($TiCl_4$ consumption $< 60\%$) refined sponge and a thin lining form on the reactor wall. $TiCl_4$ reduction prevails on the mirror surface of the fused Mg. The reaction rate is rapid and the role of secondary reactions unimportant. In the second stage ($TiCl_4$ consumption $< 80\%$), Mg penetrates the pores

Card 1/2

The mechanism of magnesiothermal ...

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of the sponge, the lining becomes larger and the role of surface-diffusion processes and secondary chemical reactions becomes more marked. In the third stage (TiCl_4 consumption $> 80\%$), the volume of the reaction mass increases at the expense of the lining. TiCl_4 reduction is gradual with intermediate formation of Ti sub-chlorides and their final reduction to metal. There are 3 figures and 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: F.S. Wartman and J. Oth, J. Electrochem. Soc., 1954, v. 101, no. 10; W.J.Kroll, Metal Industry, 1955, v. 27, nos. 4-9. ✓

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TEREKHIN, Ye.I.
TSEKOV, Gerasim Dmitriyevich; TEREKHIN, Ye.I., red.; FILIPPOVA, Ye.A.,
vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Methods of calculating multilayer curves in electrical prospecting]
Metodika rascheta mnogosloynnykh krivyykh elektricheskogo zondirovaniya.
Moskva, Gos. nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry,
1957. 81 p. (MIRA 11:5)
(Logging (Geology))

TEREKHIN, Ye. I., *Geod Geo-Min Sci* --(diss) "Development of the
theory of interpretation of electric soundings ^{carried out} ~~carried out~~ at sea."
Mos, 1958. 10 pp (Min of Higher Education USSR. Moscow Order of
Lenin and Order of Labor Red Banner State Univ in P.V.Lomonosov.
Geol Faculty. Chair of Geophys Methods of Study of the Earth's Crust).
110 copies (KL, 20-58, 94)

WILSON J BOOK EDUCATIONS 807/3-976

Pathogenic specificity: normal steady, type 18 (AFL-18) Group 1; Collection of Articles, No. 12) Moscow, Compositum, 1959, 265 p.

Bd.1 A.I. Bogdanov; Executive Ed.: N.P. Dobrynina; Tech. Ed.: E.A. Malinina,

REMARKS: The book is intended for engineers, technicians, geographers, and persons interested in the geographical methods of population geography.

COMMENTARY: The book is a collection of 15 articles dealing with the theoretical and practical problems of laboratory modeling, animal prospecting and primary care in electrical engineering. It is not easily accessible, rigid and to the authors are treated for the first time in Soviet literature. New methods for the investigation and detection of radioactive substances of drill holes, as well as optical and luminescence lighting are analyzed. No personal data are mentioned. References occupy most of the articles.

Galperin, Ya.I., & A. Enslin, ibid., 2, 1. Moreover, see A. V. Prokhorov, ibid. and technique of the application of stereographic projections for the solution of spatial problems in descriptive geometry.

Geoffrey Leary, Ph.D. Internship at Northeastern and Northeastern Illinois Universities as Angles of Incidence Less Than Critical

Plakhotny, N.K., and A.I. Glitskevich, Some Problems of the Theory and Design of the Output Stage of a Solid-State Amplifier and Galvanometer

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Insulation Layer in Water

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Dobner-Podolsky, Y.Y. Optical Methods for Investigation of Bare Solids

Report of V.S. Method for detecting radioactive substances of Very Small Intensity

Резюме, В.И. Relationship Between the Observation Central Density and the Grid Interval of Geophysical Maps

AVAILABILITY: Library of Congress (D369.P7)

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12 REKHIN, Ye. I.

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PHASE I BOOK EXPLOITATION

SOV/2821

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 24 (Exploration and Industrial Geophysics, No. 24) Moscow, Gostoptekhizdat, 1958. 58 p. (Series: Obmen proizvodstvennym opytom) 4,500 copies printed.

Ed.: M.K. Polshkov; Exec. Ed.: Ye. G. Pershina; Tech. Ed.: I.G. Fedotova.

PURPOSE: This booklet is intended for geophysicists as well as engineers and technicians engaged in geophysical work.

COVERAGE: This collection of articles discusses new methods of interpreting electrical logging, gravimetric and seismic data, and describes industrial geophysical instruments (cementometer, perforator, etc.). Improvements made on older apparatus (e.g., a change in the design of a perforator for radioactive electrical logging) are also discussed. References accompany each article.

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SOV/2821

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TEREKHIN, YE. I.

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Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki
Bavelskaya i promyshlennaya geofizika, Vp. 23 (Exploration and Industrial
Geophysics, No. 23) Moscow, Gosizdatkhizmat, 1959. 77 p. (Series: Otkrytiye
Prolifitsirovannaya otkrytiye) Extra ally inserted. 9,000 copies printed.

Ed.: A.I. Bogdanov; Ed.: Ye.G. Pechenkin; Tech. Ed.: A.B. Polozina.
PURPOSE: This booklet is intended for geophysicists as well as engineering
and technical personnel in the petroleum industry.

CONTENTS: This collection of articles describes new equipment and instruments
used in the petroleum industry. The individual articles discuss the use of
cable electronic thermometer and magnetic logging locators. Regional
exploration problems such as electrical sounding at sea, electrical survey
in permafrost areas etc. are also treated. References accompany each article.

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TEREKHIN, Ye.I.

Theoretical principles of an electric sounding apparatus submerged
in water. Prikl. geofiz. no.18:78-102 '58. (MIRA 11:5)
(Prospecting--Geophysical methods)